

FIG. 1

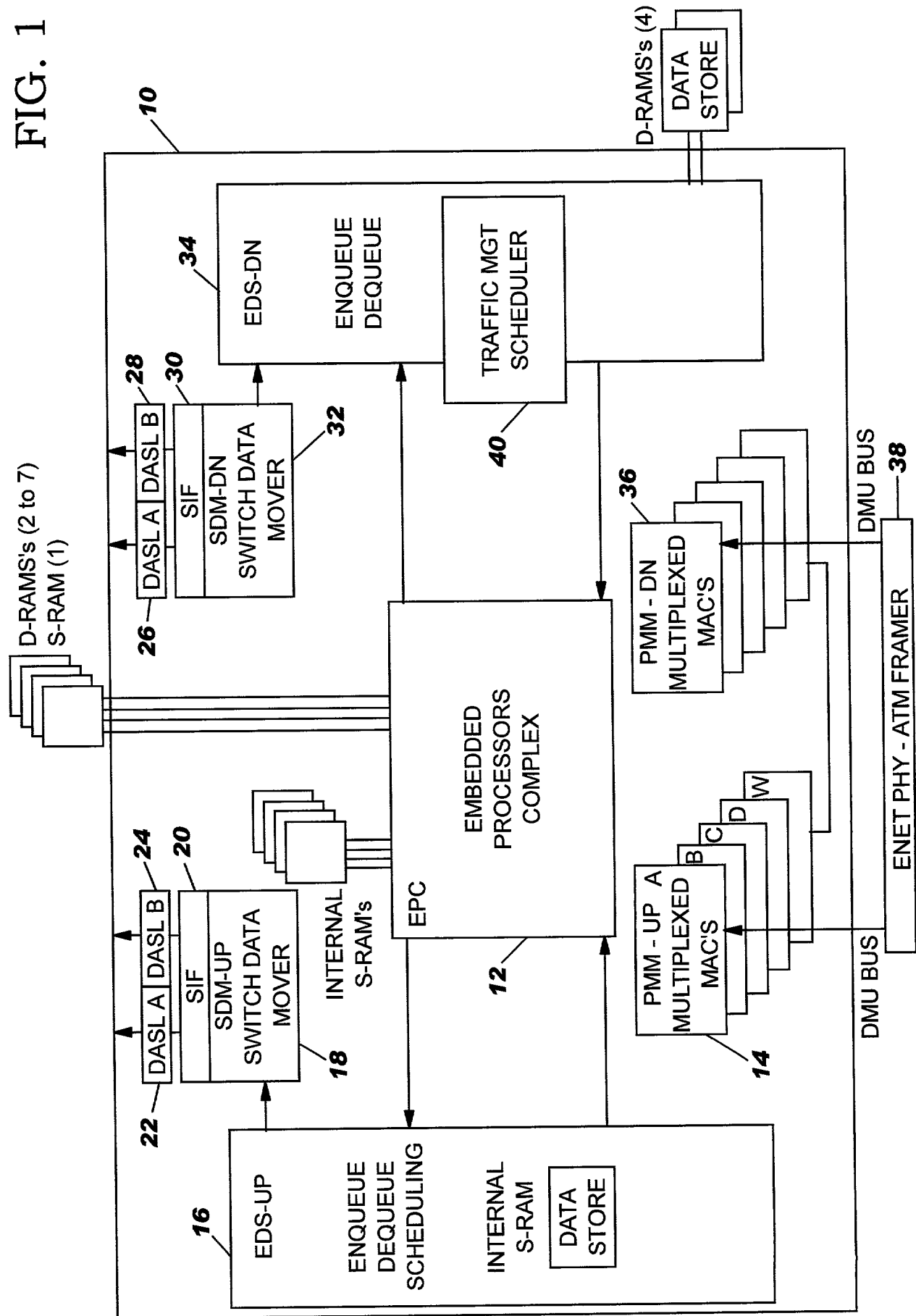
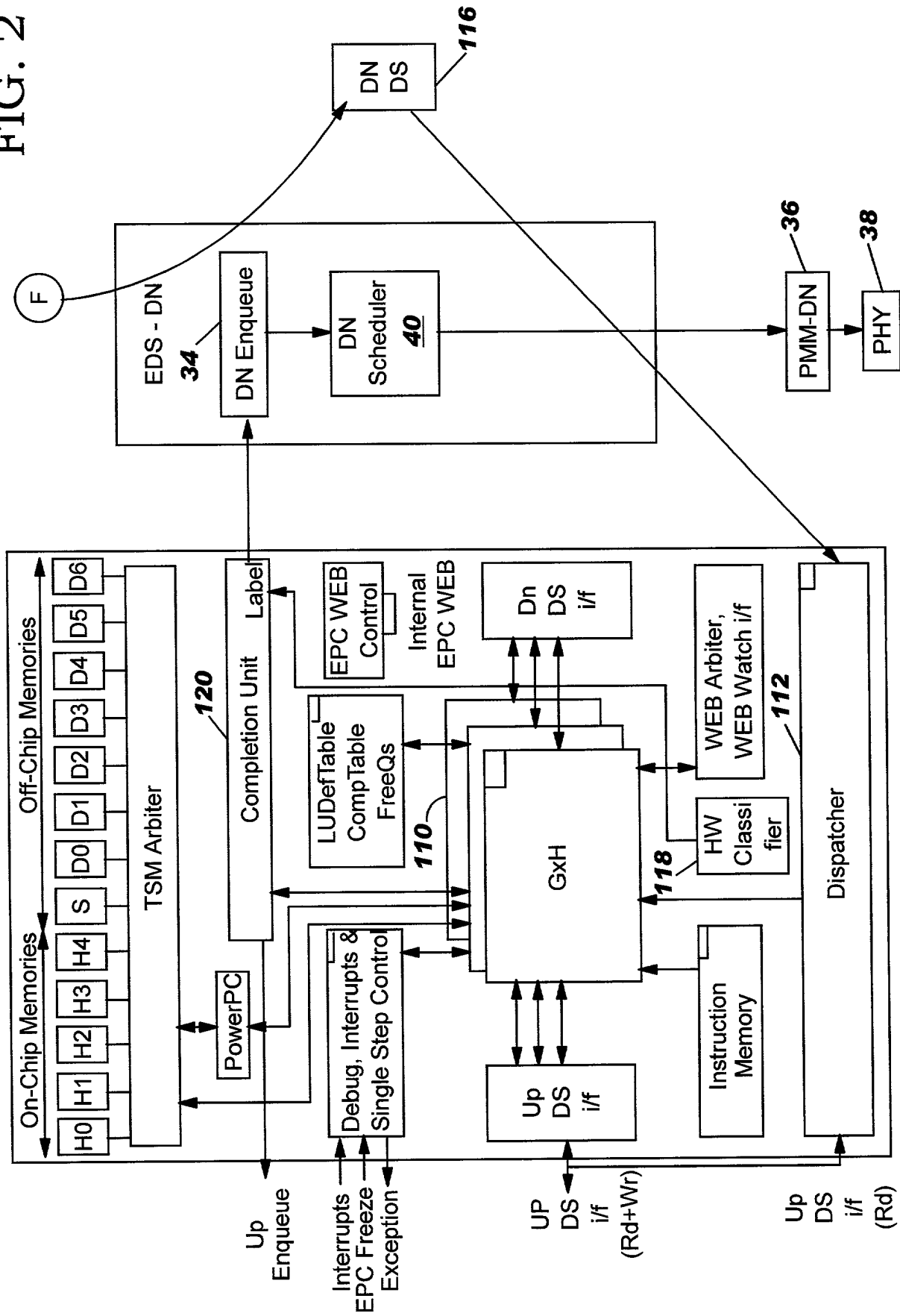


FIG. 2



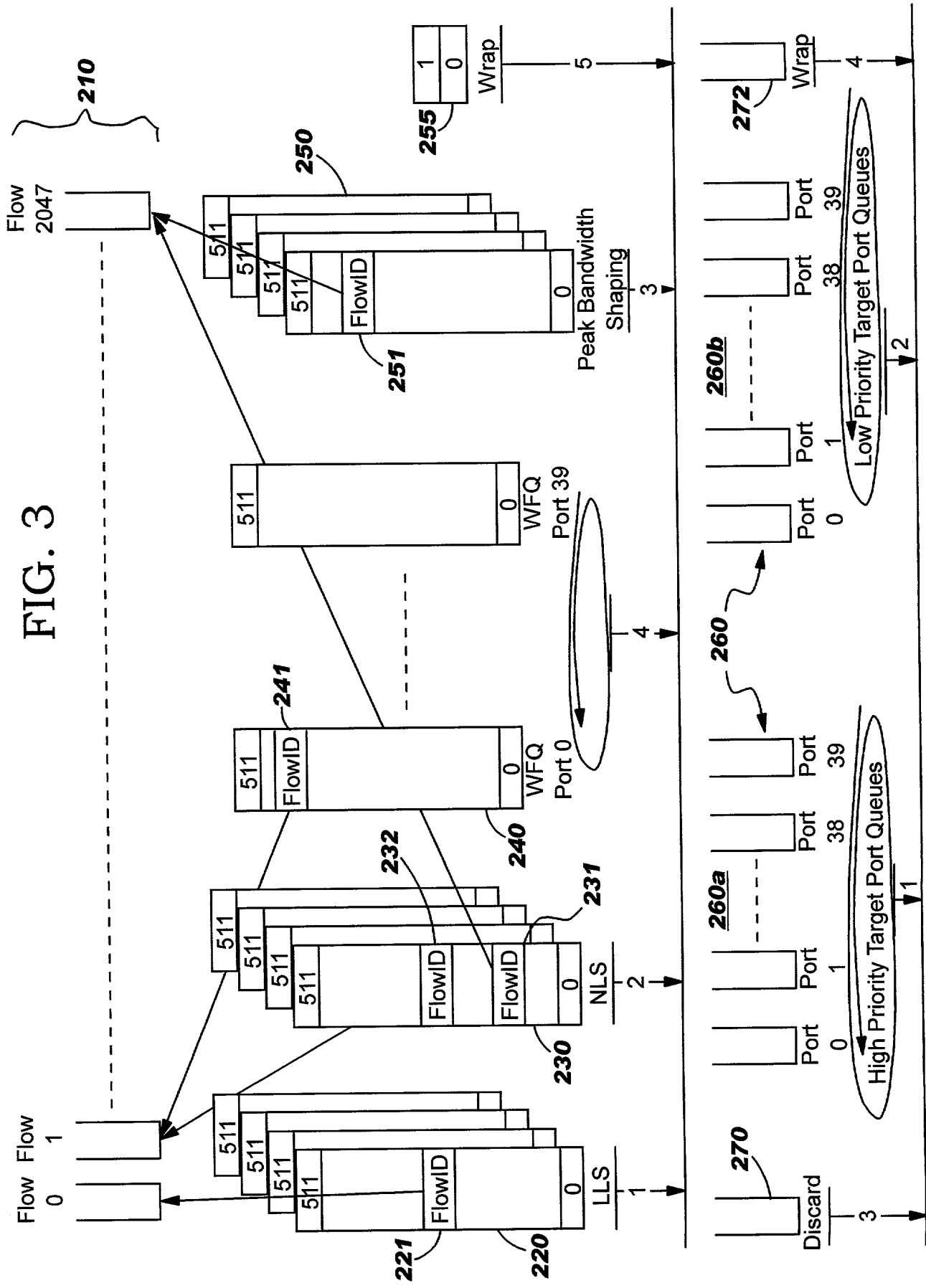


FIG. 4

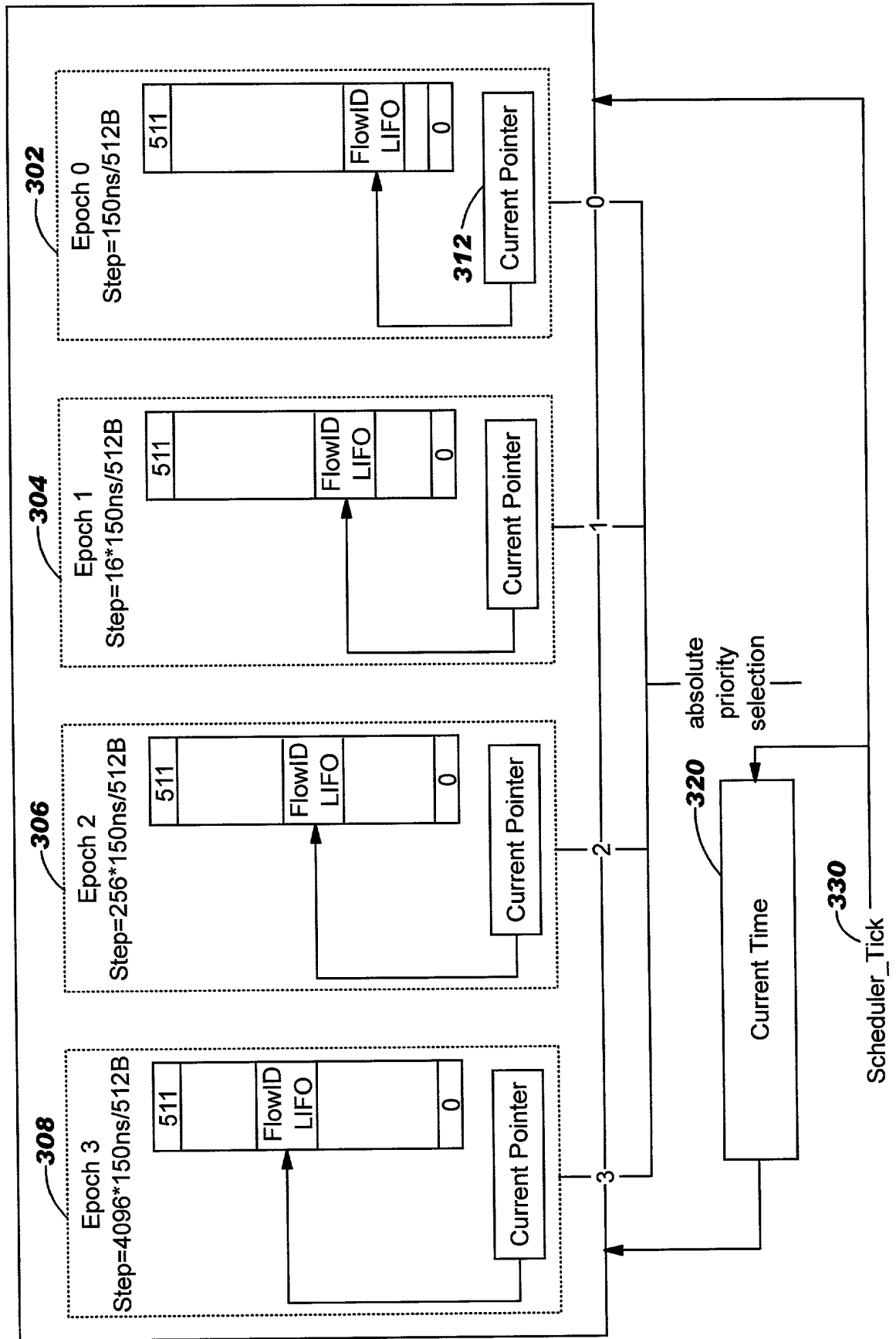


FIG. 5

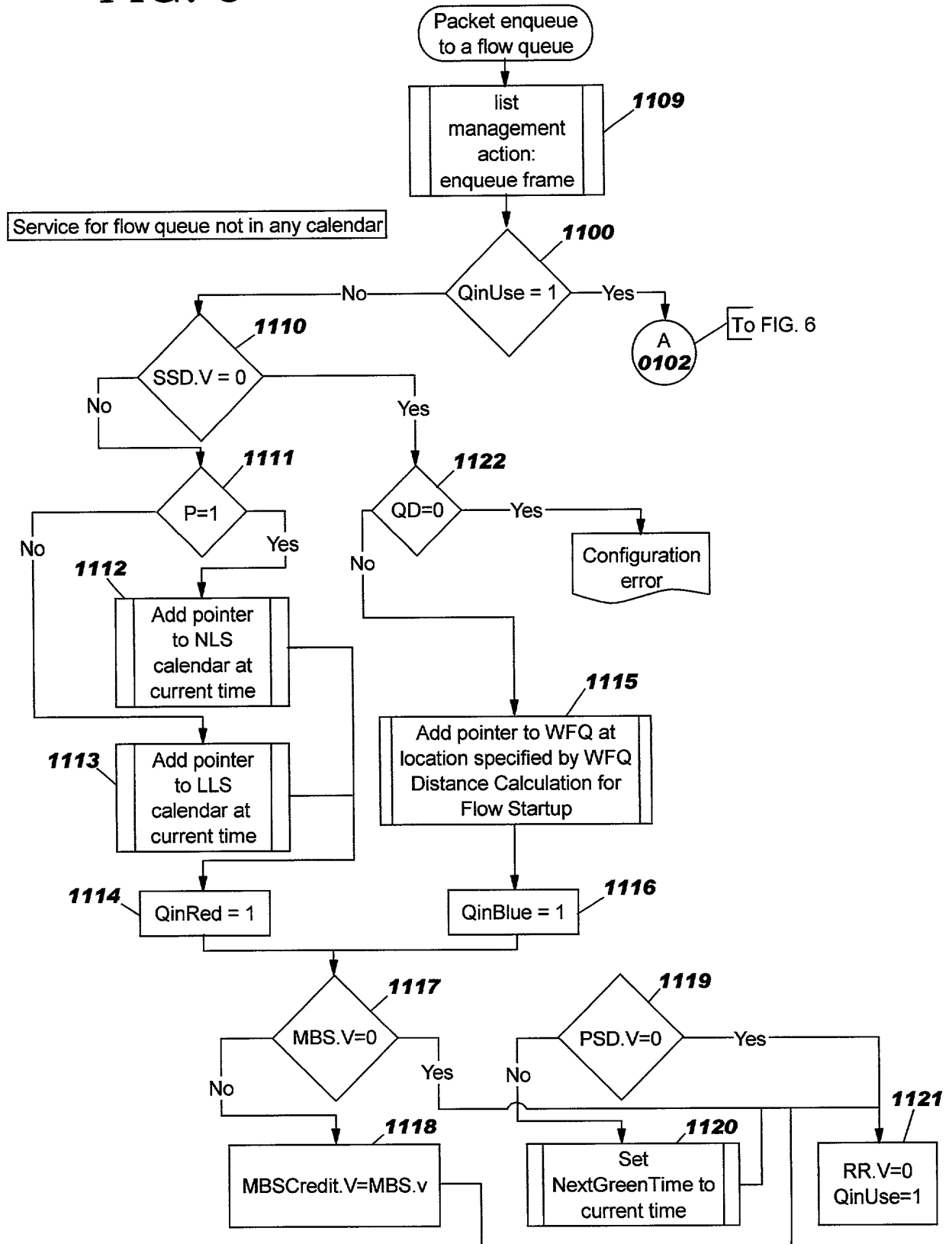
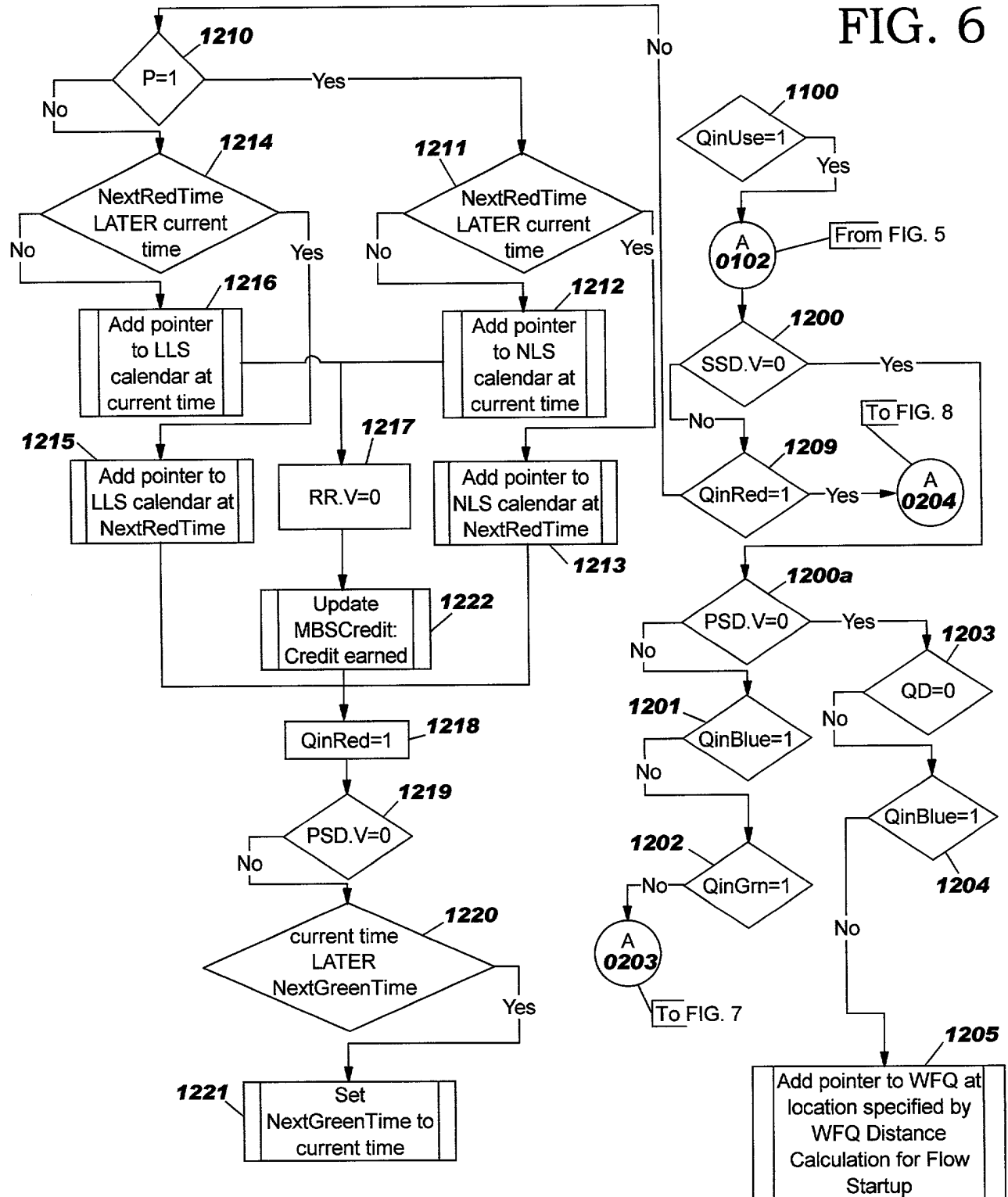


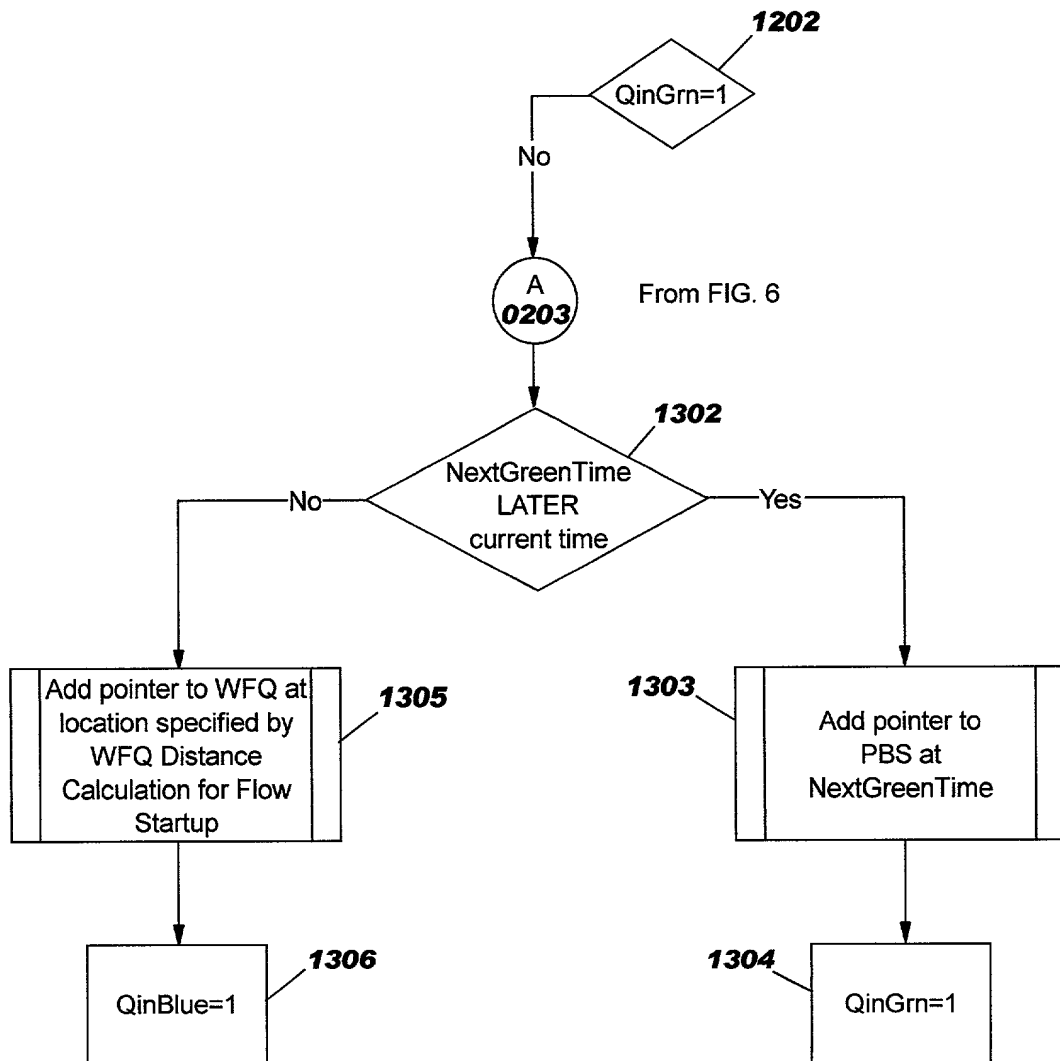
FIG. 5

FIG. 6



Timestamps are valid, but the flow queue is not in all of the calendar's it needs to be in.

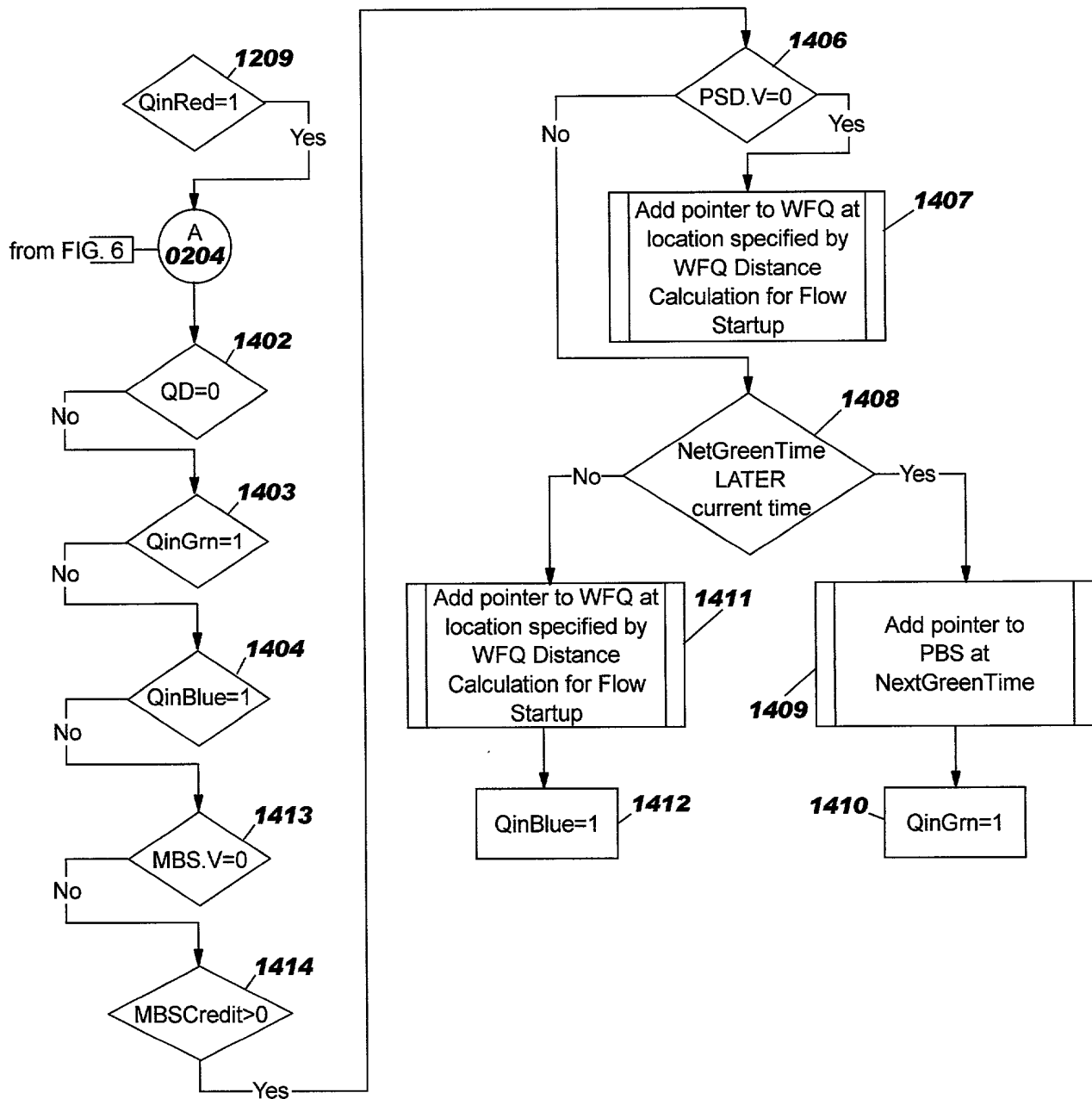
FIG. 7



Peak component is not in calendar, there is no
minimum bandwidth component

FIG. 7

FIG. 8



Peak is not in calendar; minimum bandwidth component is in calendar.

Note that NextGreenTime stamp is examined to determine attachment to either WFQ or PBS

If MBS is specified, the MBSCredit is examined and if positive, adding the flow queue to either the WFQ or the PBS is permitted.

FIG. 9

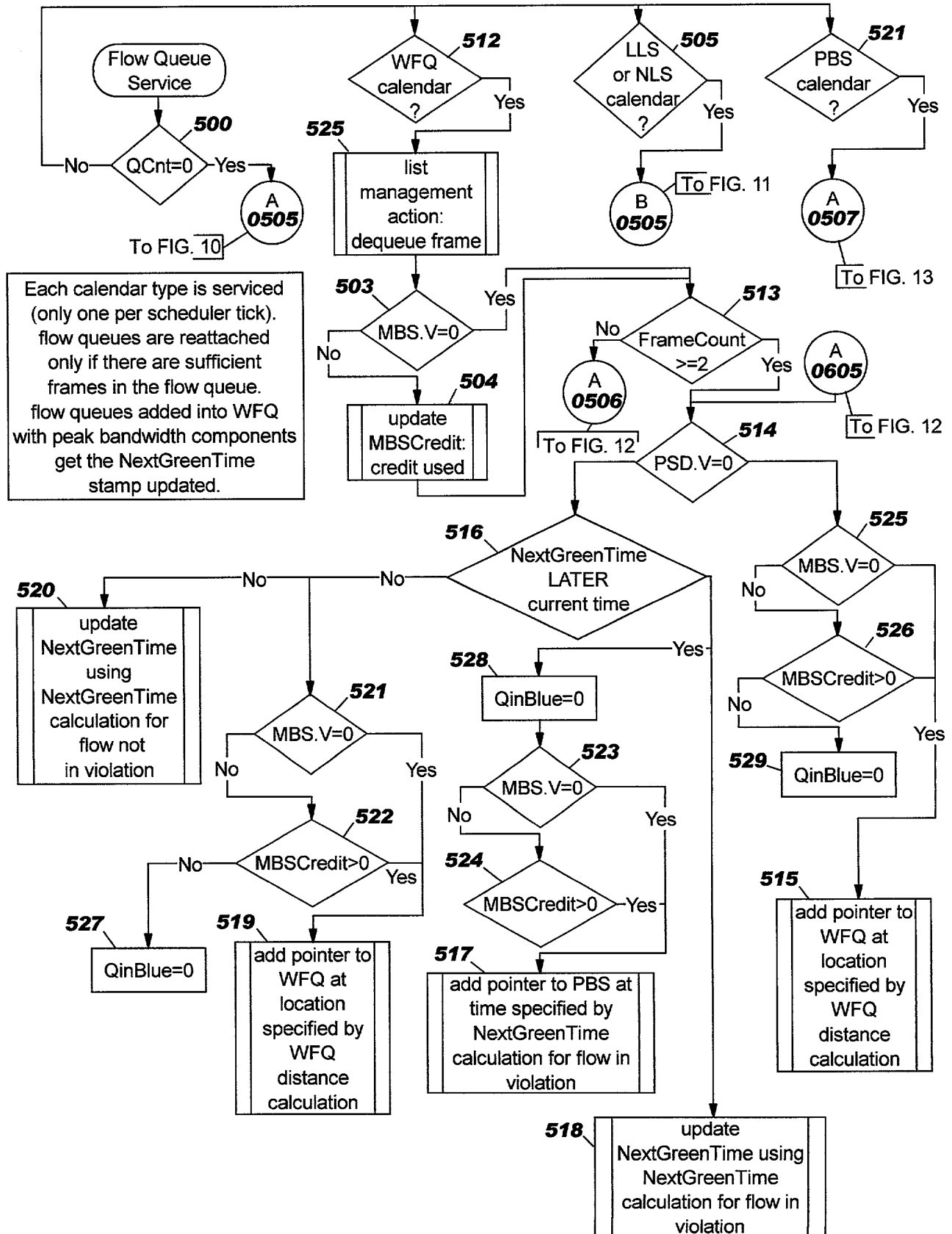


FIG. 9

FIG. 10

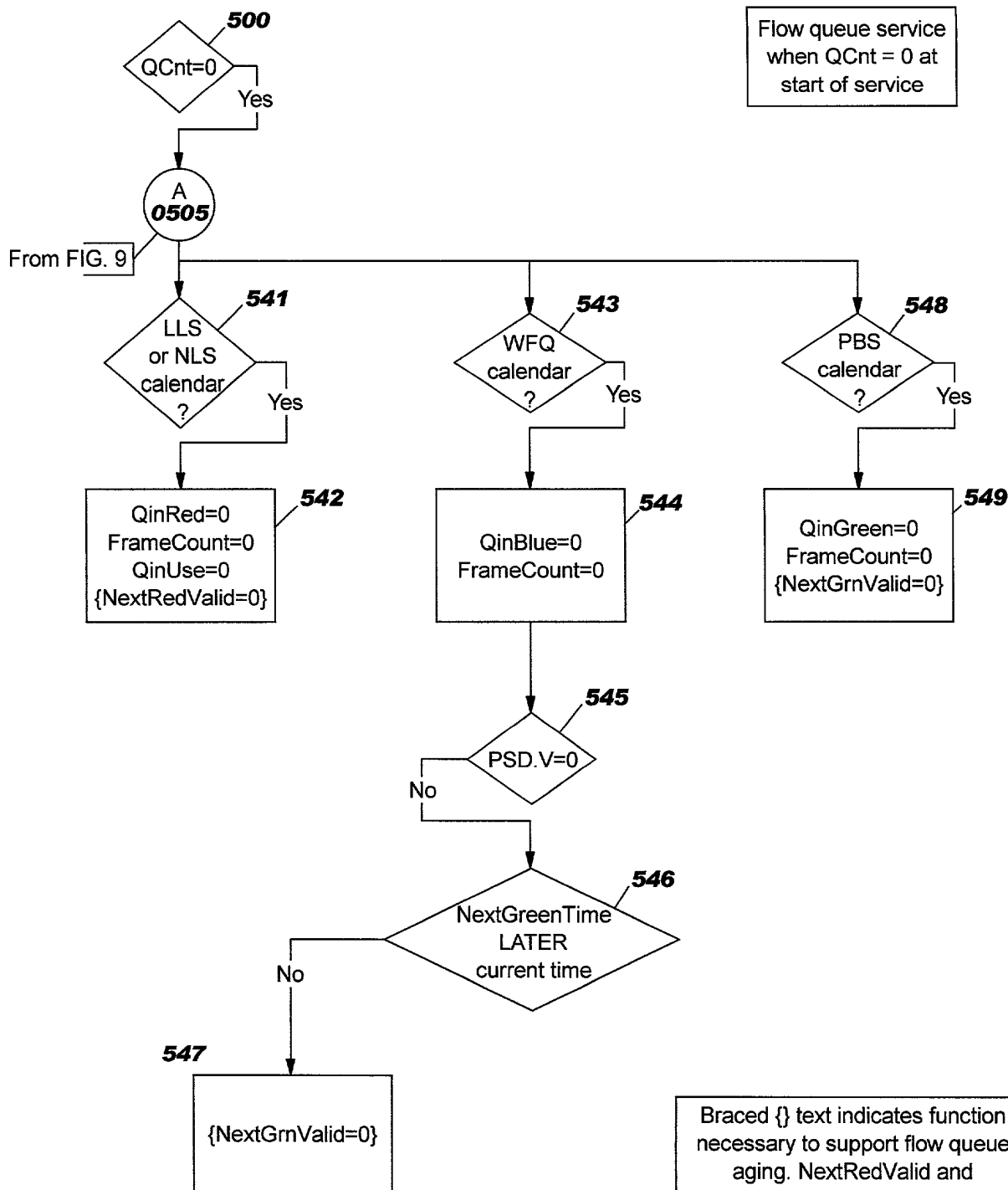


FIG. 11

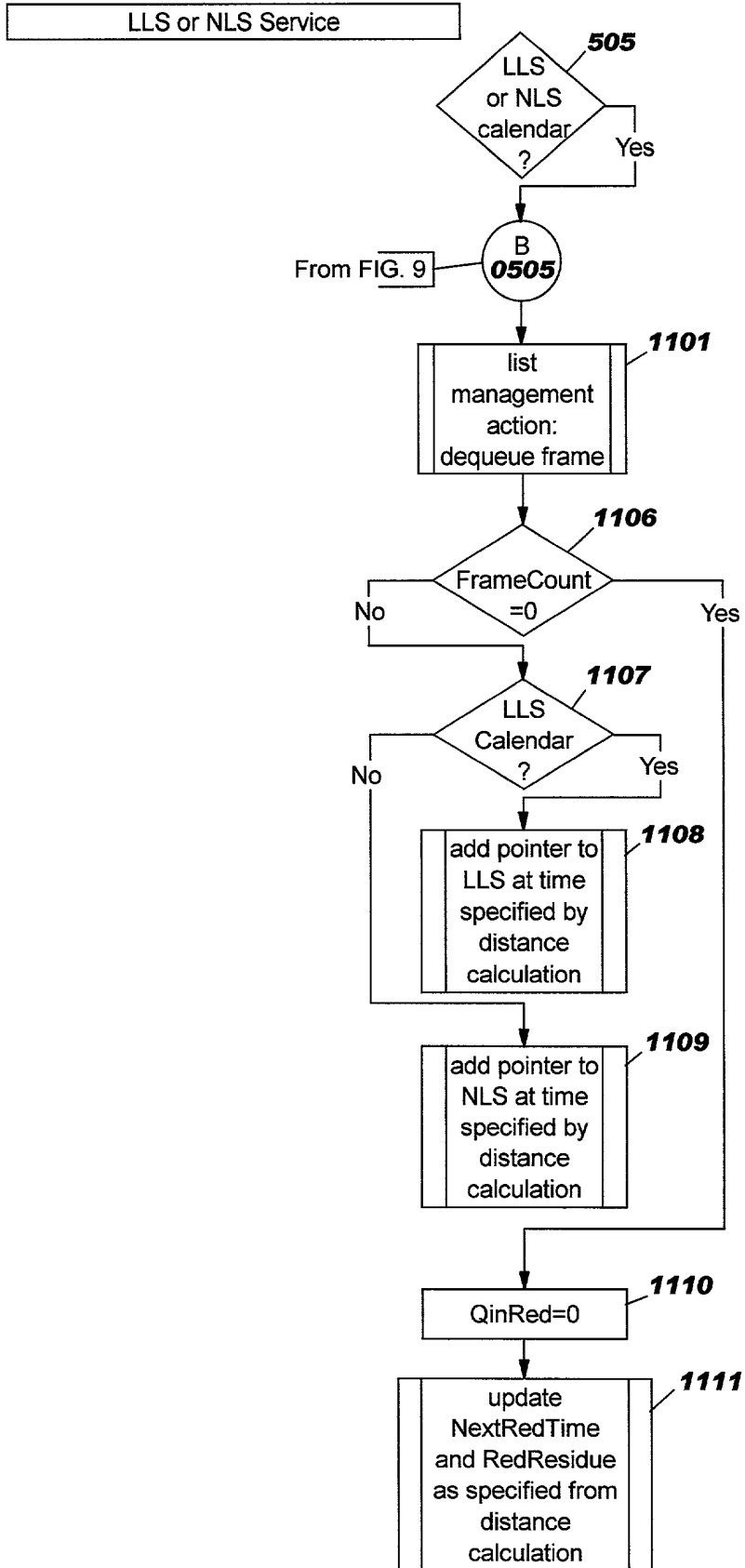
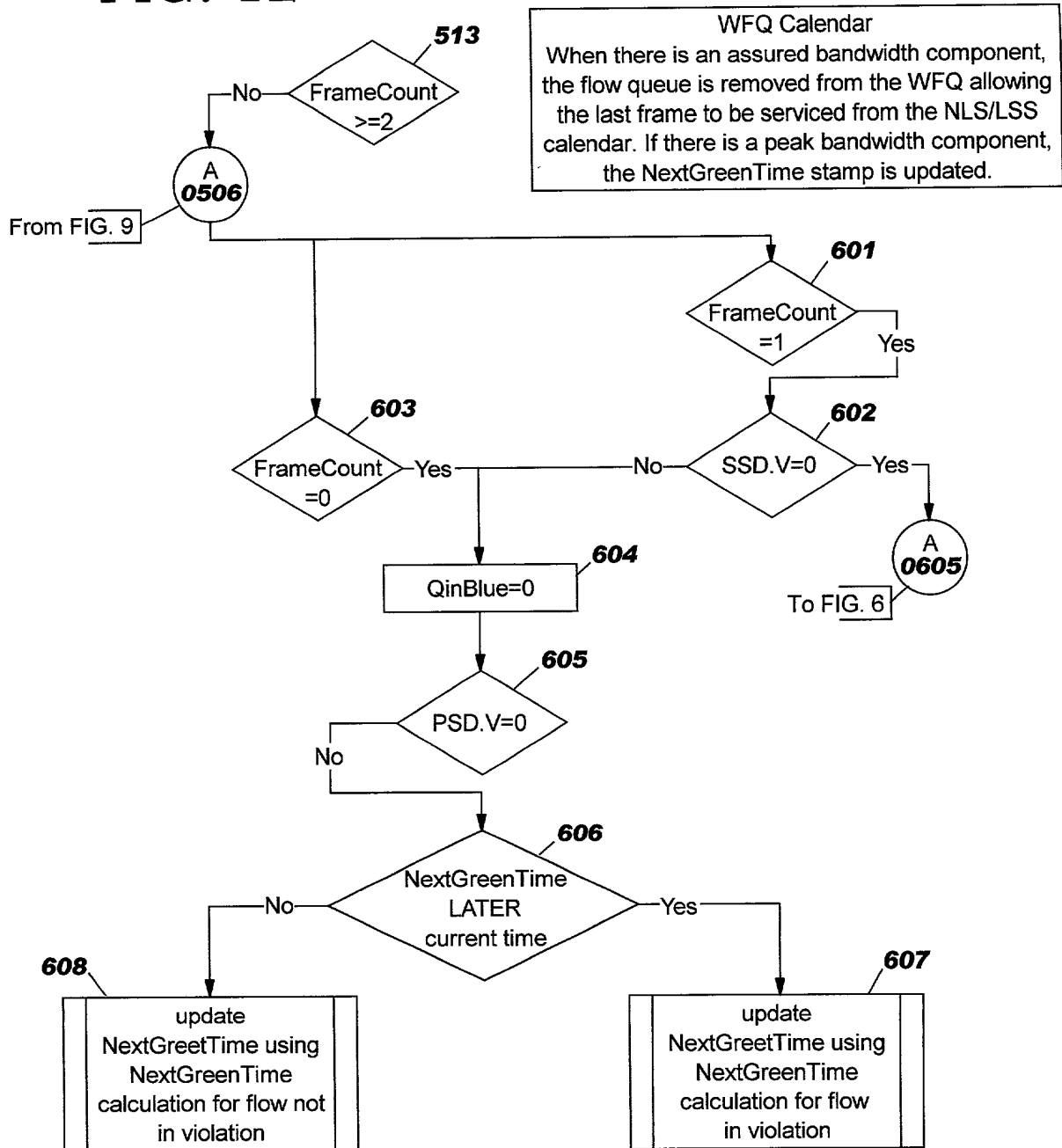


FIG. 11

FIG. 12



```

    graph TD
      521{PBS calendar ?} -- Yes --> 507((A 0507))
      521 -- No --> 1306[QinGreen=0]
      507 -- From FIG. 9 --> 1306
      1306 --> 1310{Target Port queue congested ?}
      1310 -- Yes --> 1312{FrameCount >= 2}
      1310 -- No --> 1311[list management action: dequeue frame]
      1311 --> 1304[update NextGreenTime using NextGreenTime calculation when flow is not in violation]
      1304 --> 1316{MBS.V=0}
      1316 -- No --> 1317[update MBSCredit: credit used]
      1317 --> 1307{MBS.V=0}
      1316 -- Yes --> 1307
      1307 --> 1308{MBSCredit > 0}
      1308 -- Yes --> 1302{FrameCount >= 2}
      1308 -- No --> 1307
      1302 -- No --> 1307
      1302 -- Yes --> 1300{FrameCount = 1}
      1300 -- Yes --> 1301{SSD.V=0}
      1301 -- Yes --> 1318[QinBlue=1]
      1301 -- No --> 1307
      1300 -- No --> 1307
      1312 -- No --> 1313{FrameCount = 1}
      1313 -- Yes --> 1314{SSD.V=0}
      1314 -- Yes --> 1315[Add pointer to WFQ at location specified by WFQ Distance Calculation for Flow Startup]
      1314 -- No --> 1307
      1313 -- No --> 1307
      1315 --> 1303[Add pointer to WFQ at location specified by WFQ distance calculation]
      1318 --> 1303
      1303 --> 1307
  
```

FIG. 13

Service PBS Calendar. flow queue is always removed from this calendar. NextGreenTime is always recalculated. flow queue is placed into WFQ only when there is sufficient frames in the queue. If MBS is specified, a test for available credit is performed.

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